

Abstract

Bio-decomposable polymer composition shows good thermal decomposition, wherein a drop of weight-average molecular controls within 30 % of the initial after treatment of molding and radial sterilization, by adding free radical scavenger to the bio-decomposable polymer, in order to resolve the problem.

Bio-decomposable polymer composition of the invention, standing thermal and radial decompositions is possibly applied for medical and many other industrial uses. Moreover, this processing method is applied for non-bio-decomposable polymer fields such as nylon or polypropylene for sterilization of thermal casting and irradiation.